This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously presented) A differential transistor pair circuit having resistive load elements coupled to collectors thereof, the improvement comprising:

an inductor coupled in series with each of the resistive load elements, such that the inductors are coupled to each other by mutual inductance.

- 2. (Previously presented) The differential transistor pair circuit of Claim 1 where the inductors are coupled out-of-phase to the collectors of the transistors.
- 3. (Original) A differential circuit having a compound load, comprising: a differential pair of transistors having emitters coupled together; a load resistor coupled to a collector of each transistor; and an inductor coupled in series with each of the load resistors, where the inductors are magnetically coupled together.
- 4. (Previously presented) The differential circuit of Claim 3 wherein the inductors are coupled out-of-phase to the collectors of the transistors.
- 5. (Original) The differential circuit of Claim 3 further comprises a common current source connected to the emitters of the transistors.

- 6. (Original) The differential circuit of Claim 3 wherein a differential signal of opposite polarity is applied to bases of the transistors.
- 7. (Original) The differential circuit of Claim 3 further comprises a buffer stage operable to reduce loading of the collectors of the transistors.
- 8. (Previously presented) A method for increasing bandwidth of a differential transistor pair circuit having resistive load elements coupled to collectors thereof, comprising: connecting an inductor in series with each of the resistive load elements; and magnetically coupling the inductors together.
 - 9. (Previously presented) A differential circuit having a compound load, comprising:
 - a differential pair of transistors having emitters coupled together;
 - a load resistor coupled to a collector of each transistor; and
- a transformer having a pair of inductors coupled to each other by mutual inductance and each coupled in series with one of the load resistors.
- 10. (Previously presented) The differential circuit of Claim 9 wherein the inductors are coupled out-of-phase to the collectors of the transistors.
- 11. (Previously presented) The differential circuit of Claim 9 further comprises a common current source connected to the emitters of the transistors.

- 12. (Previously presented) The differential circuit of Claim 9 wherein a differential signal of opposite polarity is applied to bases of the transistors.
- 13. (Previously presented) The differential circuit of Claim 9 further comprises a buffer stage operable to reduce loading of the collectors of the transistors.